

# LABORATORY ANALYSIS



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Department **REYLAM - DIECAST**  
Equipment No. **GRIND02 ROTOR GRINDER (DIECAST 2) (X0015)**  
System **Grinding Fluid**  
Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (--- GAL)**

## DIAGNOSIS

Add make up dilution of 50:1 ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO lean dilution until reaching recommended dilution of 15. The desired refractometer reading for this reservoir is 2.01.(not applicable) There is no indication of any contamination in the grinding fluid. Ratio is slightly strong.

## SAMPLE INFORMATION

Lab Number	New	<b>2310-00642</b>	2309-00646	2308-00872
Date of Sample	(Typical)	<b>10 Oct 2023</b>	14 Sep 2023	09 Aug 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		<b>37.4</b>	36.6	35.4
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>ABNORMAL</b>	SEVERE	NORMAL

## RATIO PER REFRACTOMETER

Refract. Reading		<b>3.7</b>	1.4	2.8
Refract. Model		<b>DIGITAL</b>	DIGITAL	DIGITAL
Refract. Ratio	oil:water	<b>▲ 7:1</b>	● 21:1	■ 10:1

## PH (ASTM E-70)

pH	Scale 0-14	<b>■ 8.9</b>	■ 8.8	■ 9.0
Ratio Rec'd	oil:water	<b>AS REC'D</b>	AS REC'D	AS REC'D

## HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	<b>18.2</b>	40.7	14.1
Grains		<b>1.1</b>	2.4	<1.0

## CIC CORROSION

CIC Dilution		<b>AS REC'D</b>	AS REC'D	AS REC'D
CIC Corrosion	%	<b>■ 0.0</b>	■ 0.0	■ 0.0

## GRAVIMETRIC, MG/L

Filter Micron	μ	<b>0.45</b>	0.45	0.45
Gravimetric	mg/L	<b>■ 8</b>	■ 4	■ 6

## BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	<b>■ 0</b>	▲ 4	■ 0
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## FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

Yeast Class	Scale 0-4	<b>■ 0</b>	■ 1	■ 0
Mold Class	Scale 0-3	<b>■ 0</b>	■ 0	■ 0

## ENERGY DISPERSIVE XRF (\*BELOW MINIMUM DETECTION LIMIT)

ppm Chlorine (Cl)	ppm	*	*	*
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## CONTAMINATION

Water		<b>NEG</b>	NEG	NEG
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Customer Id: MOTMCA  
Sample No.: EN23100642  
Lab Number: 23100642  
Test Package: TEST



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# FUEL REPORT